BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 800000.00

Name of Work: Detailed Estimate for the work of Construction of CC roads at 8th B main roads in ward no-04.

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no142, PWD SR 2016-17)	cum							
	for CC road		1	25.00	3.00	0.30	22.50		
			1	25.00	2.50	0.30	18.75		
	for rcc drain		1	14.00	1.00	1.00	14.00		
			1	13.00	1.00	1.00	13.00		
			1	25.00	1.00	1.00	25.00		
			1	10.00	1.00	1.00	10.00		
							103.25	96.48	9962.00
	Basic Rate	82.00							
	Ad-HOC 11%	9.02							
	Sub Total	91.02							
	Area Weightage 6%	5.46							
	Grand Total	96.48							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpling turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17)	cum							
				Vide Item No. 1			103.25	110.13	11371.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 8.00 k.m =1.28 X 2.50 X 8	25.60							
	Basic Rate	93.60							
	Ad-HOC 11%	10.30							
	Sub Total	103.90							
	Area Weightage 6%	6.23							
	Grand Total	110.13							

21333-00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 4-1 3. Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P 12/I 4 3)/ PWD SR 2016-17	Cum							
	for CC road		1	25.00	3.00	0.15	11.25		
			1	25.00	2.50	0.15	9.38		
	for drains		1	14.00	1.00	0.15	2.10		
			1	13.00	1.00	0.15	1.95		
			1	25.00	1.00	0.15	3.75		
			1	10.00	1.00	0.15	1.50		
							29.93	5726.51	171366.00
	Basic Rate	4867.00							
	Ad-HOC 11%	535.37							
	Sub Total	5402.37							
	Area Weightage 6%	324.14							
	Grand Total	5726.51							
4	KSRB 4.2.2 Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc. including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum							
	for RCC drains		1	14.00	0.90	0.15	1.89		
	side walls	1x2	2	14.00	0.15	0.75	3.15		
			1	13.00	0.90	0.15	1.76		
		1x2	2	13.00	0.15	0.75	2.93		
			1	25.00	0.90	0.15	3.38		
		1x2	2	25.00	0.15	0.75	5.63		
			1	10.00	0.90	0.15	1.35		
			2	10.00	0.15	0.75	2.25		
							22.32	7072.54	157859.00
	Basic Rate	6011.00							
	Ad-HOC 11%	661.21							

350558 –

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Sub Total	6672.21							
	Area Weightage 6%	400.33							
	Grand Total	7072.54							
5	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	Quintal							
	for RCC drains 65 kg/cum		0.650	22.32			14.51		
				22.32			14.51	7154.55	103798.00
	Basic Rate	6080.70							
	Ad-HOC 11%	668.88							
	Sub Total	6749.58							
	Area Weightage 6%	404.97							
	Grand Total	7154.55							
6	KSRB 4-6.4 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2016-17	sqm							
	for rcc drains	1x4	4	14.00		0.75	42.00		
		1x4	4	13.00		0.75	39.00		
		1x4	4	25.00		0.75	75.00		
		1x4	4	10.00		0.75	30.00		
							186.00	344.74	64122.00
	Basic Rate	293.00							
	Ad-HOC 11%	32.23							
	Sub Total	325.23							
	Area Weightage 6%	19.51							
	Grand Total	344.74							
7	RCC Precast covering slab for drain (10cm thick)	sqm							
			1	14.00	0.75		10.50		
			1	13.00	0.75		9.75		
			1	25.00	0.75		18.75		
			1	10.00	0.75		7.50		
	missing cover slabs		1	15.00	0.75		11.25		
							57.75	2100.00	121275.00
	Rate Approved by BBMP	2100.00							

639753

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRRB M600-6 cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS. 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing.), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, setant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum). , No. 174/ Item No. 22.6.1 SR 2016-17	Cum							
	for cc road		1	25.00	3.00	0.15	11.25		
			1	25.00	2.50	0.15	9.38		
							20.63	**6863.22**	**141554.00**
	Basic Rate	5866.00							
	Ad-HOC 11% + Area Weightage 6% =17%	997.22							
	Total	6863.22							
9	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floating disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc with all lead and lift. Page No 177 Item No 22.7 SR 2016-17	Sqm							
			1	25.00	3.00		75.00		
			1	25.00	2.50		62.50		
							137.50	**105.89**	**14560.00**
	Basic Rate	90.00							
	Ad-HOC 11%	9.90							
	Sub Total	99.90							
	Area Weightage 6%	5.99							
	Grand Total	105.89							

799588-

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc , including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials, Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement Item no 22.8.1 Page No 178 SR 2016-17	Rmt							
	for cc road		5	3.00			15.00		
			5	2.50			12.50		
							27.50	135.31	3721.00
	Basic Rate	115.00							
	Ad-HOC 11%	12.65							
	Sub Total	127.65							
	Area Weightage 6%	7.66							
	Grand Total	135.31							
11	Miscellaneous charges								412.00
								Total	800000.00

(Rupees Eight Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka satellite town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Sanction for Rs. 8.00 lakh
Eight Lakhs only
is accorded under head P.1771 - 2017-18
Registered as CE No. ..... Subject to conditions contained in enclosed memo No. CE/AA/65/2017-18 Dt. 8.2.18

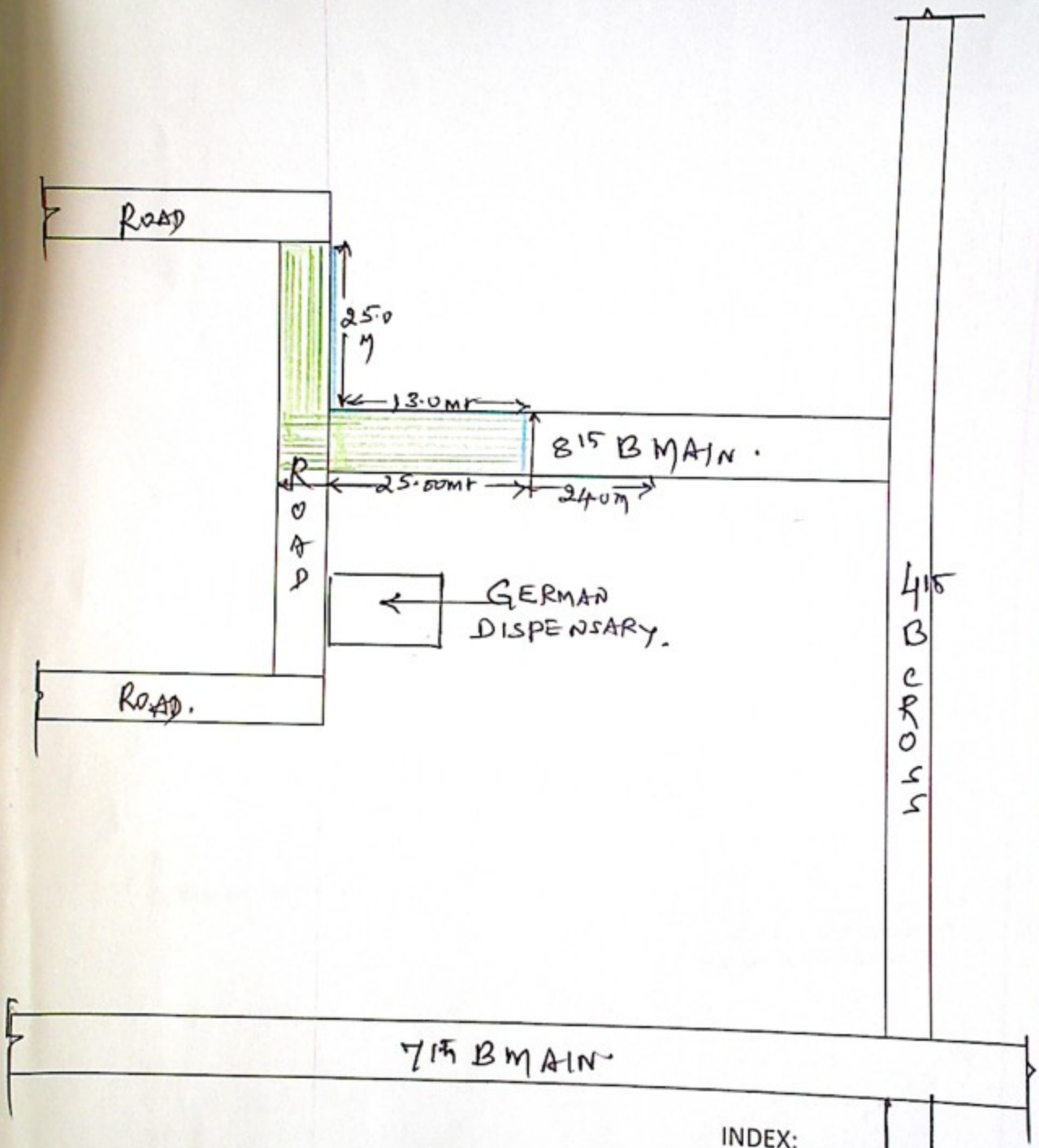
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 8.00 lacs
Rupees Eight Lakhs only
Under P.1771 - 2017-18
Registered as CE ( ) No. 99
Subject to conditions contained in enclosed memo EE ( ) No. /9/
Dt. ..... Estimate A/C Sanctioned
CE/TS/97/2017-18
Dated 16.02.2018 Rs. 8.00 lacs

Executive Engineer

NAME OF WORK:

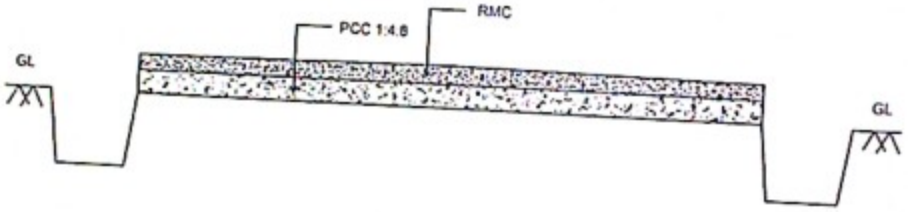
Construction of CC roads at 8th B main road in ward no-04.



A.E. Ramaraju

A.E.E.

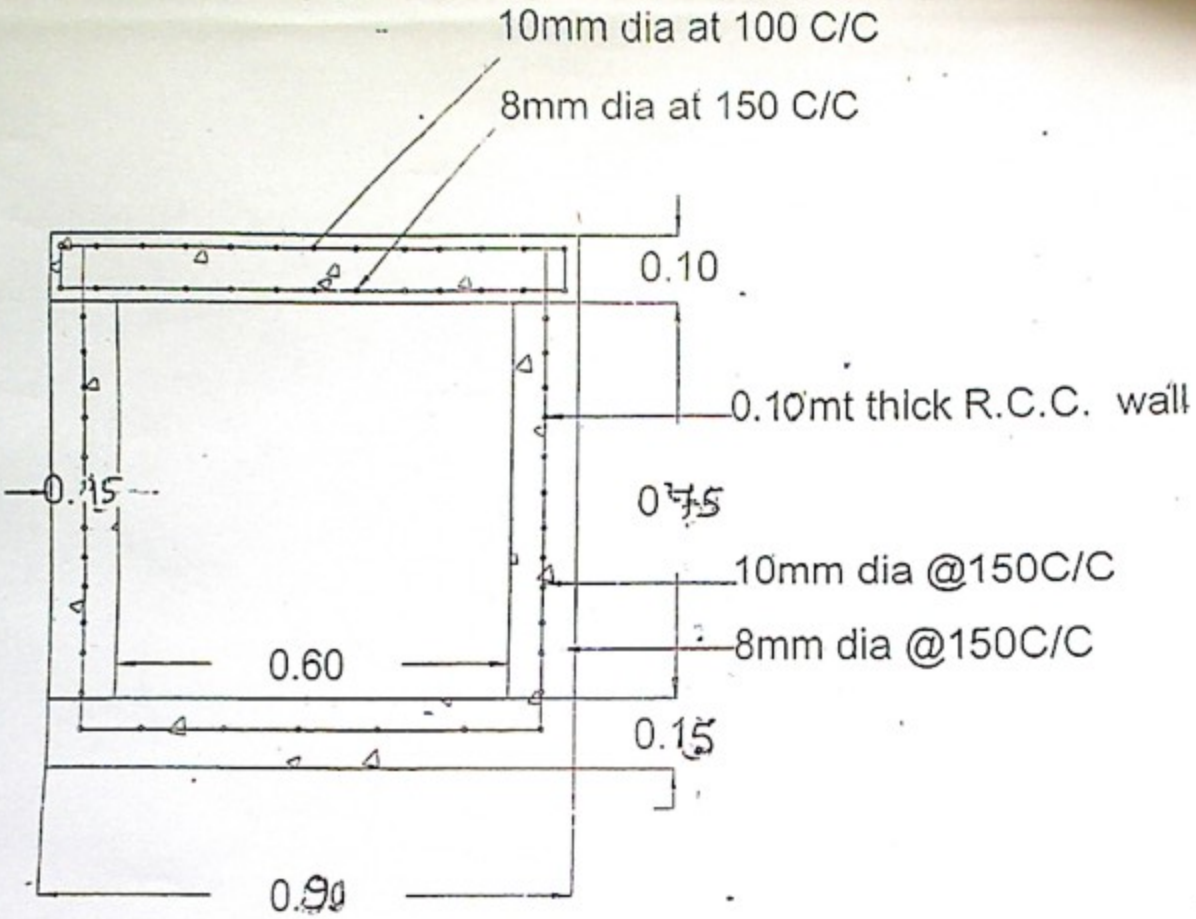
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-64



TYPICAL CROSS SECTION OF CC ROAD

Ramajeeral

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106



Cross section of R.C.C drain

Ramanjaneya

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106